



# Environmental Express<sup>®</sup> Oakton<sup>®</sup> 100 Series Portable Meters

- Effortless operation with rapid buffer ID, range setting, and measurement
- Deployable to any environment with a backlit display and rugged, waterproof design
- Advanced digital processing technology improves meter stability for dependable accuracy
- Self-managing auto-functions ensure 24/7 readiness



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# Environmental Express® Oakton® 100 Series Portable Meters

Electrochemistry testing meters uniquely designed for field or mobile applications.

## ✓ Easy to Use

Mobile physical sample testing is made effortless using Environmental Express Oakton portable meters. The 100 series portable meters use advanced digital processing technology to intelligently improve measurement response time. Rapid meter response as well as an easy-to-navigate user interface allow any level user to perform testing confidently whether it's pH, DO, or ion concentrations.

## ✓ Portable and Durable

Waterproof, dust-resistant IP57 rating and rubber boot design ensure durability in rough environments. Additional features including a built-in stand and optional carrying case allow the unit to be adapted to any operating environment.

## ✓ Accurate

Intuitive, user-friendly indicators (☺) for reading stability as well as automatic Hold, buffer recognition, and calibration modes eliminate any guesswork.

## ✓ Self-Managed and Reliable

A built-in microprocessor chip enables advanced functions, such as auto-calibration, auto-temperature compensation, parameter settings, self-diagnosis, low-battery status, and auto power-off, ensuring the unit is ready to be deployed when you need it.

A broad selection of meters, probes, and testing capabilities allows users of the portable Oakton 100 series of meters to select the solution (equipment) that aligns with any lab or field-testing needs and easily manage testing requirements anywhere while saving technicians' time for what's important.



PC 100 meter kit

## Oakton® pH 100 Portable Meter

- Measures pH, mv, ORP, and temperature (°F/°C)

### Specifications

**pH range:** 0 to 14 pH

**pH resolution:** 0.01/0.1 pH

**pH accuracy:** ±0.01 pH

**Temperature compensation:** 0 to 100°C (auto or manual)

**pH calibration:** 1 to 3 points automatic

**pH buffer solutions:** USA, NIST

**mV range:** ±1000 mV

**mV resolution:** 0.1 mV from -200 to 200 mV; 1 mV remaining

**mV accuracy:** ±0.2% full-scale

**ORP range:** ±1000 mV

**ORP resolution:** 1 mV

**ORP accuracy:** ±0.2% full-scale

**ORP calibration range:** ±50 mV of reading

**Temperature range:** 32 to 212°F (0 to 100°C)

**Temperature resolution:** 0.1°F/°C

**Temperature accuracy:** ±0.9°F (0.5°C) ±1 digit

**Power:** three AA batteries (1.5 V) included

**Battery life:** 400 hours without backlight



ISO 9001:2015  
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Model	Probe(s) included	Accessories included	Item number
pH 100	Temperature (ATC)	None	35613-28
	pH, temperature (ATC)	None	35613-25
	pH, temperature (ATC)	Carrying case and solutions	35613-27

### Accessories

**59001-65** Replacement pH electrode; single-junction, gel-filled. Epoxy body, BNC connector

**35811-71** "All-in-one" combination pH probe with built-in ATC; single-junction sealed, epoxy body, BNC connector

**35811-72** "All-in-one" combination pH probe with built-in ATC; double-junction sealed, epoxy body, BNC connector

**35613-13** Replacement ATC probe, stainless steel

**09376-01** Replacement batteries, AA. Pack of 4

**17106-20** NIST-traceable calibration with data for pH meter

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## Oakton® EC 100 Portable Meter

- Measures conductivity, TDS, salinity, and temperature (°F/°C)

### Specifications

**Conductivity ranges:** 0.00 to 19.99  $\mu\text{S}/\text{cm}$ , 20.0 to 199.9  $\mu\text{S}/\text{cm}$ , 200 to 1999  $\mu\text{S}/\text{cm}$ ; 2.00 to 19.99  $\text{mS}/\text{cm}$ , 20.0 to 199.9  $\text{mS}/\text{cm}$

**Conductivity resolution:** 0.01, 0.1, 1  $\mu\text{S}/\text{cm}$ ; 0.01, 0.1  $\text{mS}/\text{cm}$

**Conductivity accuracy:**  $\pm 1.0\%$  full-scale

**Temperature compensation:** 0 to 60°C (automatic or manual)

**Conductivity electrode constant:** 0.1, 1, 10  $\text{cm}^{-1}$

**Conductivity temperature coefficient:** 0 to 9.99%/°C

**Conductivity reference temperature:** 15 to 30°C

**Conductivity calibration:** 1 to 4 points automatic

**Conductivity calibration solutions:** 84  $\mu\text{S}/\text{cm}$ , 1413  $\mu\text{S}/\text{cm}$ ; 12.88  $\text{mS}/\text{cm}$ , 111.8  $\text{mS}/\text{cm}$

**TDS range:** 0 to 100  $\mu\text{g}/\text{L}$

**TDS accuracy:**  $\pm 1.0\%$  full-scale

**Salinity range:** 0 to 100 ppt

**Salinity accuracy:**  $\pm 1.0\%$  full-scale

**Temperature range:** 32 to 212°F (0 to 100°C)

**Temperature resolution:** 0.1°F/°C

**Temperature accuracy:**  $\pm 0.9^\circ\text{F}$  (0.5°C)  $\pm 1$  digit

**Power:** three AA batteries (1.5 V) included

**Battery life:** 400 hours without backlight



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Model	Probe(s) included	Accessories included	Item number
EC 100	Conductivity (K = 1.0), temperature (ATC)	None Carrying case and solutions	35604-10 35604-15

### Accessories

**35606-53** Conductivity probe, K = 0.1

**35606-55** Replacement conductivity probe, K = 1.0

**35606-57** Conductivity probe, K = 10

**09376-01** Replacement batteries, AA. Pack of 4

**17090-30** NIST-traceable calibration with data for conductivity meter

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## Oakton® PC 100 Portable Meter

- Measures pH, mv, ORP, conductivity, TDS, salinity, and temperature (°F/°C)
- Handy electrode clip holds all three probes at once

### Specifications

**pH range:** 0 to 14 pH  
**pH resolution:** 0.01/0.1 pH  
**pH accuracy:** ±0.01 pH  
**pH temperature compensation:** 0 to 100°C (auto or manual)  
**pH calibration:** 1 to 3 points automatic  
**pH buffer solutions:** USA, NIST  
**mV range:** ±1000 mV  
**mV resolution:** 0.1 mV from -200 to 200 mV; 1 mV remaining  
**mV accuracy:** ±0.2% full-scale  
**ORP range:** ±1000 mV  
**ORP resolution:** 1 mV  
**ORP accuracy:** ±0.2% full-scale  
**ORP calibration range:** ±50 mV of reading  
**Conductivity ranges:** 0.00 to 19.99 µS/cm, 20.0 to 199.9 µS/cm, 200 to 1999 µS/cm; 2.00 to 19.99 mS/cm, 20.0 to 199.9 mS/cm  
**Conductivity resolution:** 0.01, 0.1, 1 µS/cm; 0.01, 0.1 mS/cm  
**Conductivity accuracy:** ±1.0% full-scale

**Conductivity temperature compensation range:** 0 to 60°C (automatic or manual)  
**Conductivity electrode constant:** 0.1, 1, 10 cm<sup>-1</sup>  
**Conductivity temperature coefficient:** 0 to 9.99%/°C  
**Conductivity reference temperature:** 15 to 30°C  
**Conductivity calibration:** 1 to 4 points automatic  
**Conductivity calibration solutions:** 84 µS/cm, 1413 µS/cm; 12.88 mS/cm, 111.8 mS/cm  
**TDS range:** 0 to 100 µg/L  
**TDS accuracy:** ±1.0% full-scale  
**Salinity range:** 0 to 100 ppt  
**Salinity accuracy:** ±1.0% full-scale  
**Temperature range:** 32 to 212°F (0 to 100°C)  
**Temperature resolution:** 0.1°F/°C  
**Temperature accuracy:** ±0.9°F (0.5°C) ±1 digit  
**Power:** three AA batteries (1.5 V) included  
**Battery life:** 400 hours without backlight



Model	Probe(s) included	Accessories included	Item number
PC 100	pH, conductivity (K = 1.0), temperature (ATC)	Electrode clip	35613-45
		Electrode clip, carrying case, and solutions	35613-46

### Accessories

**35606-53** Conductivity probe, K = 0.1

**35606-57** Conductivity probe, K = 10

**17090-30** NIST-traceable calibration with data for conductivity meter

**17106-20** NIST-traceable calibration with data for pH meter

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## Oakton® ION 100 Portable Meter

- Measures pH, mV, ion concentration of 16 commonly measured ions, and temperature (°F/°C)
- mV mode allows you to check electrode calibration and performance
- ±1000 mV range is compatible with virtually all ISE electrodes

### Specifications

**pH range:** 0 to 14 pH

**pH resolution:** 0.01/0.1 pH

**pH accuracy:** ±0.01 pH

**Temperature compensation:** 0 to 100°C (auto or manual)

**pH calibration:** 1 to 3 points automatic

**pH buffer solutions:** USA, NIST

**mV range:** ±1000 mV

**mV resolution:** 0.1 mV from -200 to 200 mV;  
1 mV remaining

**mV accuracy:** ±0.2% full-scale

**Ion ranges:** 0.00 to 10.00 pX; 0 to 1999 ion concentration

**Units of measure:** switchable pX, mol/L, or ppm (mg/L)

**Ion resolution:** 3 to 4 significant digits

**Ion accuracy:** ±1.0% full-scale

**Temperature range:** 32 to 212°F (0 to 100°C)

**Temperature resolution:** 0.1°F/°C

**Temperature accuracy:** ±0.9°F (0.5°C) ±1 digit

**Power:** three AA batteries (1.5 V) included

**Battery life:** 400 hours without backlight



Model	Probe(s) included	Accessories included	Item number
ION 100	Temperature (ATC)	None	<b>35613-65</b>
		Carrying case	<b>35613-68</b>

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### Accessories

**27504-14** Fluoride electrode, double-junction, refillable.  
Epoxy body, BNC connector

**27502-00** Ammonia electrode, double-junction, refillable.  
Epoxy body, BNC connector

**27504-22** Nitrate electrode, double-junction, refillable.  
Epoxy body, BNC connector

**09376-01** Replacement batteries, AA. Pack of 4

**17106-20** NIST-traceable calibration with data for pH meter

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# Oakton® DO 100 Portable Meter

- Measures dissolved oxygen (DO) and temperature (°F/°C)

## Specifications

**DO range:** 0 to 20.00 mg/L (ppm); 0 to 200%

**DO resolution:** 0.01/0.1 mg/L (ppm); 0.1/1%

**DO accuracy:** ±0.30 mg/L

**DO response time:** ≤ 30s (77°F/25°C, 90% response)

**Temperature compensation:** 0 to 45°C (automatic)

**Salinity compensation range:** 0 to 45 ppt (automatic)

**Air pressure compensation:** 60 to 200 kPa (manual)

**Temperature range:** 32 to 212°F (0 to 100°C)

**Temperature resolution:** 0.1°F/°C

**Temperature accuracy:** ±0.9°F (0.5°C) ±1 digit

**Power:** three AA batteries (1.5 V) included

**Battery life:** 400 hours without backlight



Model	Probe(s) included	Accessories included	Item number
DO 100	Polarographic DO electrode with built-in temperature sensor, electrolyte solution, membrane caps, and cathode polishing paper	None	35643-00
		Carrying case	35643-05

## Accessories

**35643-01** Replacement polarographic DO electrode

**35643-02** Replacement electrode inner solution (electrolyte), 30 mL

**35643-03** Replacement membrane caps. Pack of 3

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